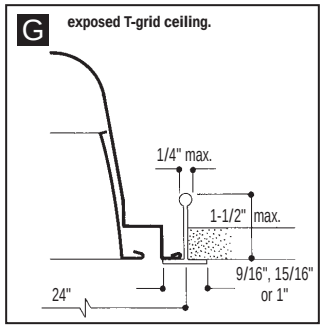
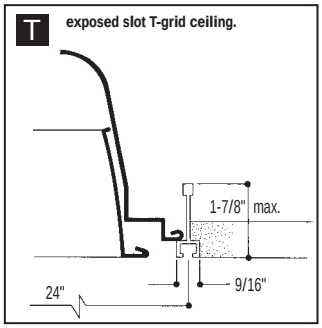
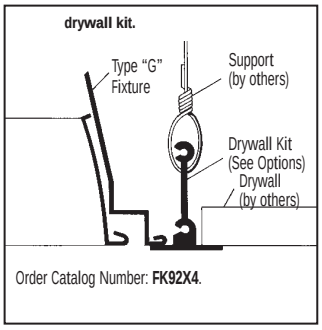
# 2' x 4' Recessed Fluorescent, High Performance Louver Static or Air Supply/Return, 2 Lamp T8

- GO2 evenly illuminates horizontal and vertical surfaces and is low in brightness.
- Can provide 51 maintained footcandles at only .58 watts per square foot.
- Produces a minimum 72 VCP.
- 85.9% efficient.
- 1.7 space mounting ratio.
- 94% reflective flat white powder coated louver.
- 94% reflectance Miro™ reflector system.
- 5" deep body.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Built-in earthquake clips (patent no. 5,072,344).
- Spring loaded latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code or Chicago Plenum requirements is available.
- Manufactured in USA

## Mounting Methods

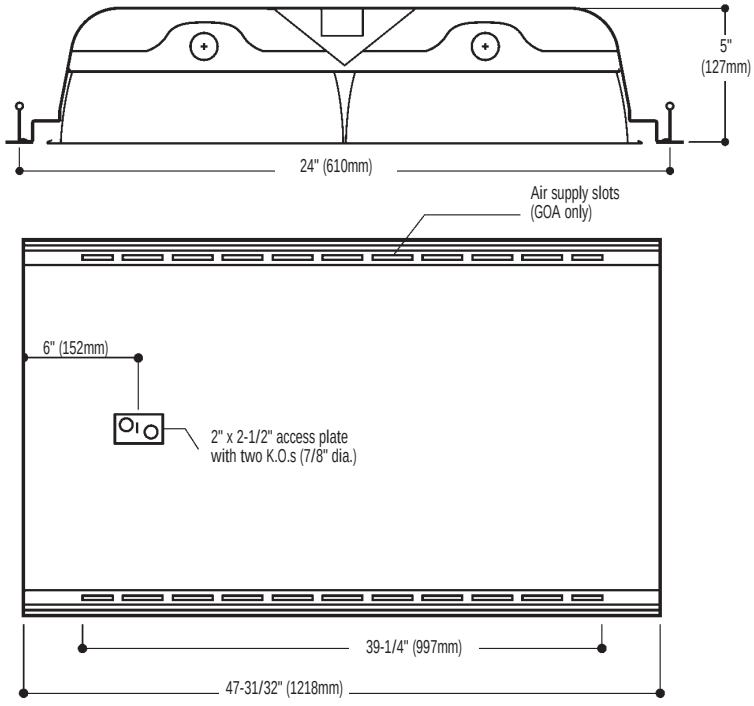



Order Catalog Number: **FK92X4**.

## Dimensions




**Job Information** **Type:**

**Job Name:**

**Cat. No.:**

**Lamp(s):**

**Volts/Ballast:**

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
www.lightolier.com © 2008 a Philips Group

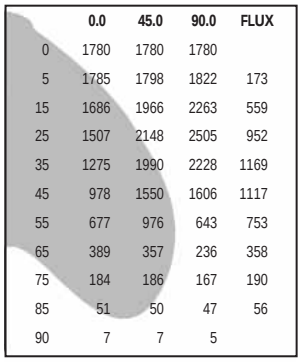
# 2' x 4' Recessed Fluorescent, High Performance Louver Static or Air Supply/Return, 2 Lamp T8

**Model No. GOS2G232UNVC5**

LER = FP - 81.1 IW - 51.22 BF - 0.78
Comparative yearly lighting energy cost per 1000 lumens = $2.96
Report Number: G2008092
Catalog Number: GOS2G232UNVC5
Lamp: (2) F32T8/841 Alto Advantage
Luminaire: GO2 2'X4' with 12 cell louver.
Ballast: Advance IOP-2P32-LW-SC
Report is based on 3100 Lumens per lamp.
Efficiency: 85.9%

| CIE Type-Direct-Indirect Plane: | 0-Deg | 90-Deg |
|---|---|---|
| Spacing Criteria: | 1.2 | 1.7 |
| Shielding Angles: | 90 | 90 |
| Plane: | 0-Deg | 90-Deg |
| Luminous Length: | 45.960 | 21.960 |

**CANDELA DISTRIBUTION**



| | 0.0 | 45.0 | 90.0 | FLUX |
|---|---|---|---|---|
| 0 | 1780 | 1780 | 1780 | |
| 5 | 1785 | 1798 | 1822 | 173 |
| 15 | 1686 | 1966 | 2263 | 559 |
| 25 | 1507 | 2148 | 2505 | 952 |
| 35 | 1275 | 1990 | 2228 | 1169 |
| 45 | 978 | 1550 | 1606 | 1117 |
| 55 | 677 | 976 | 643 | 753 |
| 65 | 389 | 357 | 236 | 358 |
| 75 | 184 | 186 | 167 | 190 |
| 85 | 51 | 50 | 47 | 56 |
| 90 | 7 | 7 | 5 | |

**COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80 | | | 50 | | | 30 | | |
|---|---|---|---|---|---|---|---|---|---|
| RW | 70 | 50 | 30 | 50 | 30 | 10 | 50 | 30 | 10 |
| 1 | 95 | 91 | 88 | 86 | 83 | 81 | 82 | 80 | 79 |
| 2 | 87 | 81 | 76 | 76 | 72 | 69 | 73 | 70 | 67 |
| 3 | 80 | 72 | 66 | 68 | 63 | 59 | 66 | 62 | 58 |
| 4 | 74 | 64 | 57 | 61 | 55 | 51 | 59 | 54 | 50 |
| 5 | 68 | 58 | 51 | 55 | 49 | 45 | 53 | 48 | 44 |
| 6 | 63 | 52 | 45 | 50 | 44 | 39 | 49 | 43 | 39 |
| 7 | 58 | 47 | 40 | 46 | 39 | 35 | 44 | 39 | 35 |
| 8 | 54 | 43 | 36 | 42 | 36 | 31 | 41 | 35 | 31 |
| 9 | 51 | 40 | 33 | 38 | 32 | 28 | 37 | 32 | 28 |
| 10 | 48 | 37 | 30 | 35 | 30 | 26 | 35 | 29 | 25 |

**LUMINANCE DATA IN CANDELA/SQ. METER**

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|---|---|---|---|
| 45 | 2123. | 3376. | 3487. |
| 55 | 1812. | 2612. | 1721. |
| 65 | 1413. | 1297. | 857. |
| 75 | 1091. | 1103. | 991. |
| 85 | 898. | 881. | 828. |

**TYPICAL V.C.P.'s**

| | Mounting Height 9' Ceiling 50 Footcandles | | | |
|---|---|---|---|---|
| Room Size | North | East | South | West |
| **30x30** | 81 | 82 | 87 | 86 |
| **40x40** | 77 | 80 | 82 | 87 |
| **60x30** | 83 | 77 | 90 | 83 |
| **60x60** | 73 | 75 | 80 | 84 |
| **100x100** | 72 | 73 | 77 | 78 |

**ZONAL LUMEN SUMMARY**

| ZONE | LUMENS | % LAMP | % FIXT |
|---|---|---|---|
| 0- 30 | 1685 | 27.2 | 31.6 |
| 0- 40 | 2854 | 46.0 | 53.6 |
| 0- 60 | 4724 | 76.2 | 88.7 |
| 0- 90 | 5329 | 85.9 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 5329 | 85.9 | 100.0 |

## Ordering Information

Explanation of Catalog Number. Example: GOS2G232UNVC5

| | | 2 | | 2 | 32 | | | ▪ | |
|---|---|---|---|---|---|---|---|---|---|
| **GO2 Series** | **Body Style:** **A**=Air Supply **S**=Static | **Fixture Width** | **Ceiling Type:** **G**= Grid (lay-in T bar) **T**= Slot grid or two-directional concealed T (see options) | **Lamp Quantity** | **Lamp Type/ Fixture Length:** **32**= 4' T8 (Nominal 48") | **Voltage:** 120, 277 or **UNV**=120-277 | **Ballast Type:** | | **Options:** Add appropriate suffix to catalog no., ie: (C) |

| | |
|---|---|
| **GO** | Standard GO2 |
| **GC** | For NYC Code – I.B.E.W. Manufactured |
| **GN** | For NYC Code – Local 3 Manufactured 5½" Deep Body |

| Ballast Type: | <10THD | Ballast Factor |
|---|---|---|
| 1-2 Lamp Elec. T8 | **HI*** | **.88** |
| Advance Optanium | **C5*** | **.77** |
| BI Level Step Dimming | **V2** | |
| LOL Dimming | **PS** | |

*Instant Start Standard

## Options/Accessories

**Plaster Frame**: Catalog Number: **PF24**.
**Radio Interference Filter**: To order one RIF per fixture; SUFFIX: **R**. To order one RIF per ballast; SUFFIX: **B**.
**Fusing**: Internal fast-blow fusing. SUFFIX **A**. Internal slow-blow fusing. SUFFIX **C**.
**Electrical Wiring Options**: Consult factory.
**Air Closure Strip**: SUFFIX: **ACS4** (factory installed).
**Drywall Kit**: Order Catalog Number: **FK92X4**. (Request Folio OA30-10 Rev. A).
**Chicago Plenum**: SUFFIX: **C**.

## Specifications

**Performance**: In an installation of 2 lamp 32W luminaries in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .91. To prevent glare the VCP shall be not less than 72 either lengthwise or crosswise and the average brightness at 65° shall not exceed 1413 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 68.4%.
**Air Handling** (GOA only) side air passages for air supply or air return. Optional side closure strips. Air return is also provided through the lamp compartment through fixture body ends.

## Specifications (continued)

**Materials**: **Chassis parts** are die-formed code gauge cold rolled steel. Side rails hemmed over and housing ends turned-in for safe handling. **Reflector** is 94% reflective aluminum.
**Finish**: **Chassis exterior**–black baked polyester enamel. **Cavity**–white baked polyester enamel. Rust preventative undercoating. **Louver**–94% reflective flat white powder coat.
**Electrical**: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
**Labels**: I.B.E.W. UL and ULc Listed.
This product may have a mercury containing lamp.
Manage in accord with Disposal Laws. See: www.lamprecycle.org

**Job Information** **Type:**

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
www.lightolier.com © 2008 a Philips Group


Lightolier is a Philips group brand

PHILIPS